

Name: _____

Earth Science 11 Summary Assignment

You may use all of your notes and other resources to complete this assignment.

Part 1: MC

1. Compaction and lithification of weathered and eroded material results in what type of rock?
 - a. Igneous
 - b. Sedimentary
 - c. Metamorphic
 - d. Phaneritic

2. Select the mineral test that is used to determine a mineral's reflectivity
 - a. Cleavage
 - b. Hardness
 - c. Lustre
 - d. Malleability

3. Exceptionally dark coloured minerals are referred to as
 - a. Mafic
 - b. Ultra mafic
 - c. Intermediate
 - d. Felsic

4. Which of the following is the strongest erosive force in nature?
 - a. Glacial
 - b. Wind
 - c. Water
 - d. All of the above

5. Why was Alfred Wegener's theory of continental drift originally refuted?
 - a. Nobody could explain how the plates moved
 - b. Fossil evidence did not support it
 - c. The continents don't actually fit into one another like puzzle pieces
 - d. Mountain ranges separated by oceans were not made of the same rock type

6. Which type of seismic wave causes the most damage?
 - a. S wave
 - b. P wave
 - c. L wave
 - d. R wave

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7. Which seismic wave can travel through only solids?
 - a. S wave
 - b. P wave
 - c. L wave
 - d. R wave

8. Which type of volcano is made up of alternating layers of ash/dust and lava?
 - a. Cinder cone
 - b. Composite cone
 - c. Shield
 - d. All of the above

9. What is the asthenosphere?
 - a. The upper mantle and crust
 - b. The "layer of rock"
 - c. A layer in the atmosphere
 - d. The layer closest to the core of the earth

10. Which layer of the atmosphere has the greatest density?
 - a. Thermosphere
 - b. Troposphere
 - c. Stratosphere
 - d. Mesosphere

11. Which air mass can be found over top of Mexico?
 - a. Continental polar
 - b. Continental tropical
 - c. Maritime polar
 - d. Maritime tropical

12. What happens when an air mass reaches 100% humidity?
 - a. A cloud forms
 - b. The dew point is reached
 - c. The air mass can not hold any more water vapour
 - d. All of the above

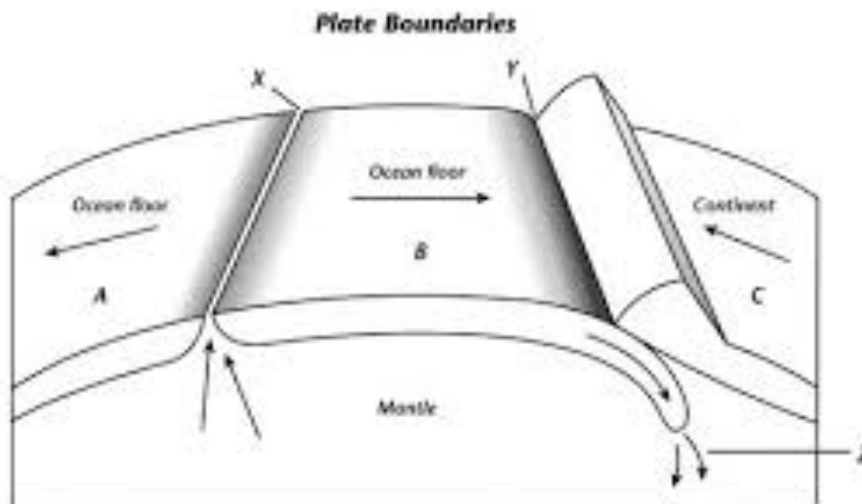
13. What type of fuel is burned in a main sequence star?
 - a. Hydrogen
 - b. Helium
 - c. Iron
 - d. Oxygen

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14. How are stars on the Hertzsprung – Russel Diagram classified?
- By luminosity and Surface temperature
 - By luminosity and size
 - By size and surface temperature
 - By colour and brightness
15. What provides the most accurate reflection of the health of a water system?
- Acidity
 - Marine life
 - Sediment levels
 - Dissolved oxygen
16. What does not help control the direction of surface ocean currents?
- Continental deflections
 - Global wind patterns
 - Differences in water density
 - None of the above
17. What are three methods to which density of ocean water can increase?
- Decreasing temperature
 - Increasing salinity through freezing
 - Increasing salinity from evaporation
 - All of the above

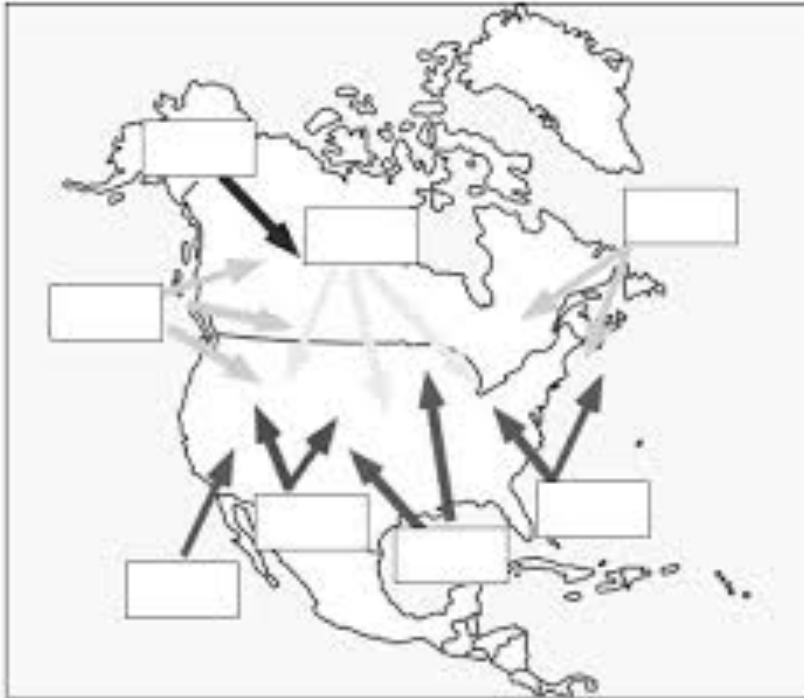
Part 2: Diagrams

1. Label the diagram points A, B, C, X Y, and Z below



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2. Label the air masses below.



Part 3: Long Answers

1. Outline in detail the stages of the rock cycle.

